



Water-Data Report 2008

01407705 SHARK RIVER NEAR NEPTUNE CITY, NJ

SHARK RIVER BASIN

LOCATION.--Lat 40°11'55", long 74°04'12" referenced to North American Datum of 1983, Neptune Township, Monmouth County, NJ, Hydrologic Unit 02030104, on left bank 100 ft upstream from bridge on Remsen Mill Road, 0.3 mi downstream from Robins Swamp Brook, and 1.7 mi west of Neptune City.

DRAINAGE AREA.--9.96 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1966 to current year.

REVISED RECORDS.--WDR NJ-05-01: 1967-1973, 1975, 1978-1980, and 1983(M).

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 7.05 ft above NGVD of 1929.

COOPERATION.--Water-stage recorder inspected by New Jersey-American Water Co.

REMARKS.--Records fair. Diversion above station by New Jersey-American Water Company for municipal supply (see 01407704) and by farmers for irrigation. Entire flow from 0.34 mi² of drainage area, subsequent to November 1962, controlled by Glendola Reservoir (capacity 1,000 million gal) on Robins Swamp Brook, 0.6 mi southwest of gage. Water pumped into Glendola Reservoir from Manasquan River or Reservoir subsequent to July 1990 (see 0140802890). Satellite gage-height telemetry at gage. Several measurements of water temperature were made during the year.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.6	3.1	9.9	24	59	12	11	7.6	12	3.5	8.5	5.7
2	4.4	1.6	10	20	73	10	6.0	6.9	9.5	4.7	8.0	5.7
3	4.5	1.8	38	16	27	8.8	1.6	4.5	6.8	5.1	7.7	5.5
4	4.6	1.4	16	14	21	8.9	25	6.8	18	4.0	6.8	5.5
5	4.5	2.5	13	14	19	19	19	5.9	40	4.6	6.7	5.6
6	4.5	8.7	12	14	17	13	13	5.3	9.5	3.0	6.9	50
7	5.0	2.5	10	14	20	24	12	4.9	6.5	3.2	6.8	33
8	4.5	3.3	10	15	17	134	11	7.3	5.7	6.0	6.6	10
9	4.3	3.4	11	16	15	55	8.7	31	5.4	6.8	6.9	8.4
10	6.1	3.1	15	9.5	14	24	8.9	22	4.9	6.8	6.9	7.3
11	8.7	1.5	12	17	12	19	8.6	12	4.4	6.2	7.3	8.1
12	3.7	1.1	11	14	13	17	16	37	5.9	6.2	6.1	9.4
13	1.2	2.3	28	9.6	84	14	11	24	4.2	6.1	6.5	9.9
14	2.1	4.7	29	50	57	12	8.7	13	8.2	6.4	8.0	8.6
15	2.2	7.1	18	25	26	14	7.9	9.5	7.8	6.2	8.3	7.1
16	1.7	7.1	82	19	21	13	7.4	37	3.8	5.8	6.7	6.5
17	1.4	6.9	41	18	19	11	7.0	42	10	5.7	7.2	6.5
18	1.2	7.2	20	59	22	10	7.0	21	9.9	5.6	6.9	6.4
19	33	13	17	28	20	17	6.8	16	9.8	5.4	6.5	6.0
20	16	12	16	20	17	37	6.5	15	4.0	5.3	6.0	6.0
21	4.2	9.8	15	16	15	22	6.8	16	4.0	5.3	6.0	6.0
22	1.6	7.8	16	15	19	17	6.4	5.2	4.1	5.4	6.0	6.0
23	1.1	6.1	42	16	23	14	6.0	2.1	4.3	6.1	6.2	5.9
24	2.3	6.1	51	15	20	13	5.9	1.4	5.2	26	6.3	5.8
25	12	6.8	22	13	20	9.2	7.7	1.9	6.7	6.6	6.3	5.9
26	10	16	18	13	18	6.0	6.8	2.0	7.6	7.0	6.0	132
27	28	18	18	13	17	10	6.6	3.3	8.6	108	6.0	35
28	3.7	12	15	13	12	11	13	1.7	6.3	44	6.0	15
29	1.3	11	32	13	11	8.1	19	6.6	3.5	9.5	6.0	106
30	1.3	10	23	13	---	3.9	10	10	6.7	9.9	6.9	26
31	1.8	---	48	13	---	7.2	---	12	---	9.5	6.2	---
Total	185.5	197.9	718.9	569.1	728	594.1	291.3	390.9	243.3	343.9	209.2	554.8
Mean	5.98	6.60	23.2	18.4	25.1	19.2	9.71	12.6	8.11	11.1	6.75	18.5
Max	33	18	82	59	84	134	25	42	40	108	8.5	132
Min	1.1	1.1	9.9	9.5	11	3.9	1.6	1.4	3.5	3.0	6.0	5.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	11.4	13.7	17.8	18.4	16.9	22.2	20.3	15.7	10.1	9.52	10.3	9.69
Max	61.6	38.5	61.6	41.1	42.4	56.3	48.3	50.9	37.0	30.1	29.2	32.0
(WY)	(2006)	(2007)	(1970)	(1978)	(1998)	(1993)	(1983)	(1998)	(2003)	(1984)	(1992)	(2006)
Min	2.81	1.73	4.07	3.57	3.56	6.53	6.39	3.51	2.13	2.39	3.11	1.28
(WY)	(1982)	(1982)	(1999)	(1981)	(2002)	(1986)	(1985)	(1986)	(1986)	(2002)	(1995)	(1988)

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	Calendar Year 2007		Water Year 2008		Water Years 1967 - 2008	
Annual total	5,912.7		5,026.9			
Annual mean	16.2		13.7		14.7	
Highest annual mean					24.9	1984
Lowest annual mean					6.27	2002
Highest daily mean	205	Mar 2	134	Mar 8	^a 1,100	Dec 26, 1969
Lowest daily mean	1.1	Oct 23	1.1	Oct 23, Nov 12	0.00	Sep 20, 1981
Annual seven-day minimum	1.8	Oct 29	1.8	Oct 29	0.70	Sep 26, 1988
Maximum peak flow			357	Jul 27	2,340	Dec 26, 1969
Maximum peak stage			5.07	Jul 27	7.94	Dec 26, 1969
Instantaneous low flow			0.38	Oct 15, 28	^b 0.00	Aug 20, 1978
10 percent exceeds	29		26		28	
50 percent exceeds	10		8.7		8.2	
90 percent exceeds	4.5		3.7		2.7	

^a Estimated.^b First occurrence of 0.00 ft³/s on Aug 20, 1978.